

DDESB-KT (AMCPM-AL/11 Aug 89) 2nd End Dr. Canada/sb/325-8625
SUBJECT: 105/120mm Tank Ammunition Download Rack

Department of Defense Explosives Safety Board, 2461 Eisenhower
Avenue, Alexandria, VA 22331-0600

21 NOV 1989

FOR DIRECTOR, US ARMY TECHNICAL CENTER FOR EXPLOSIVES SAFETY,
ATTN: SMCAC-ES, SAVANNA, IL 61074-9639

1. The Technical Data Package (TDP) entitled: "Ammunition Quickload Program 105mm and 120mm Tank Ammunition Download Rack" by Jerry L. Watson, US Army Ballistic Research Laboratory and Phillip J. Peregino, Dynamics Sciences Inc. dated 1 June 1989, has been reviewed as requested.

2. The TDP is approved as qualified in the first endorsement provided that:

a. Note 7 of GENERAL NOTES provides a more adequate specification of the "well-drained, granular material." Information such as allowed grain sizes, debris content, and moisture content is needed.

b. Figures 41, 42, and 44 should give more adequate specification of the sand tested (see 2.a above). The sand containment structures tested in the rack should be specified. The containment structure designs should be reviewed to ensure that the contained sand maintains its integrity during the lifetime of the rack. Issues such as moisture content and settling should be addressed.

c. The rack lifetime should be evaluated and specified.

d. The (potential) locations for kinetic energy rounds should be specified in Figure 44.

/S/ Colonel Jack Mathews, USAF

wd all encls

JACK MATHEWS
Colonel, USAF
Chairman